

PAT-NO: JP361008364A

DOCUMENT-IDENTIFIER: JP 61008364 A

TITLE: TEMPERATURE CONTROLLER FOR
THERMAL PRINT HEAD

PUBN-DATE: January 16, 1986

INVENTOR-INFORMATION:

NAME
FUTAKI, KENJI

INT-CL (IPC): B41J003/20

US-CL-CURRENT: 400/54

ABSTRACT:

PURPOSE: To perform a temperature control of a thermal print head smoothly without adding a special function, by controlling the power source voltage to be applied to the thermal print head utilizing a voltage drop compensating function of the power source circuit.

CONSTITUTION: The temperature of a thermal print head

1 is detected with a
temperature detector 2 and an output of a temperature
detection circuit 3 is
converted into an digital signal with an A/D conversion circuit
4 to be
inputted into an arithmetic processing circuit 5, which performs
computation of
a set voltage value corresponding to the detection
temperature and the results
are converted into an analog signal with a D/A conversion
circuit 6 to be
inputted into a thermal print head power source circuit 7,
which controls the
power source voltage to be applied to the thermal print head
1 according to the
signal inputted into the power source circuit 7. As the voltage
to be applied
to the thermal print head 1 varies, the heating value of the
thermal print head
1 changes to vary the temperature thereof 1 and the changes
in the temperature
is detected to be fed back with temperature detector 2.
Thus, the temperature
of the thermal print head 1 is controlled.

COPYRIGHT: (C)1986,JPO&Japio

----- KWIC -----

Abstract Text - FPAR (2):

CONSTITUTION: The temperature of a thermal print head

1 is detected with a temperature detector 2 and an output of a temperature detection circuit 3 is converted into an digital signal with an A/D conversion circuit 4 to be inputted into an arithmetic processing circuit 5, which performs computation of a set voltage value corresponding to the detection temperature and the results are converted into an analog signal with a D/A conversion circuit 6 to be inputted into a thermal print head power source circuit 7, which controls the power source voltage to be applied to the thermal print head 1 according to the signal inputted into the power source circuit 7. As the voltage to be applied to the thermal print head 1 varies, the heating value of the thermal print head 1 changes to vary the temperature thereof 1 and the changes in the temperature is detected to be fed back with temperature detector 2. Thus, the temperature of the thermal print head 1 is controlled.

